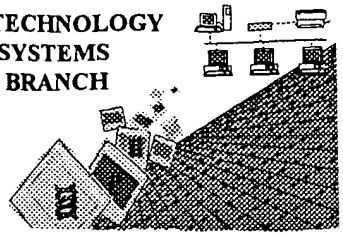
1653

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/105,117I
Source: 1600
Date Processed by STIC: 8/12/2002

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PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

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Revised 01/29/2002

1600

RAW SEQUENCE LISTING DATE: 08/12/2002
PATENT APPLICATION: US/09/105,117I TIME: 14:05:45

Input Set : A:\Sequencelisting_FZJ 9910 PCT_US.txt
Output Set: N:\CRF3\08122002\I105117I.raw

Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: Forschungszentrum Juelich GmbH
5 <120> TITLE OF INVENTION: Process for the microbial production of amino acids by
6 boosted activity of export carriers
8 <130> FILE REFERENCE: 1
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/105,117I
C--> 11 <141> CURRENT FILING DATE: 1998-06-17
E--> 13 <160> NUMBER OF SEQ ID NOS: 25 (see p.4)
15 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

E--> 206 <210> SEQ ID NO: DNA (complement to <210> 1)
207 <213> ORGANISM: Corynebacterium glutamicum
W--> 208 <220> FEATURE:
209 <221> NAME/KEY: unsure
210 <222> LOCATION: CDS (2)..(652)
211 <223> OTHER INFORMATION: orf3
W--> 212 <220> FEATURE:
213 <221> NAME/KEY: gene
214 <222> LOCATION: CDS (1421)..(2293)
215 <223> OTHER INFORMATION: LysG
W--> 217 <212> TYPE:
E--> 217 <400> SEQUENCE: 3

see p. 6 for explanation

218 a gat act cct ttg gaa gaa acc atg tac gca ttg cgt gac att gtt gcg 49
219 Asp Thr Pro Leu Glu Glu Thr Met Tyr Ala Leu Arg Asp Ile Val Ala
220 1 5 10 15
222 tct gga aag gct ctt tac gtg ggt att tct tcc tac ggt cca gag ctc 97
223 Ser Gly Lys Ala Leu Tyr Val Gly Ile Ser Ser Tyr Gly Pro Glu Leu
224 20 25 30
226 aca gcg gag gcg gct gag ttc atg gcg gag gag ggc tgc ccg ctt ctg 145
227 Thr Ala Glu Ala Ala Glu Phe Met Ala Glu Glu Gly Cys Pro Leu Leu
228 35 40 45
230 att cat cag cca agc tat tcc atc att aat cgt tgg gtg gag gaa ccg 193
231 Ile His Gln Pro Ser Tyr Ser Ile Ile Asn Arg Trp Val Glu Glu Pro
232 50 55 60
234 ggc gat gac ggt gag aac ttg ttg cag tca gct gcc aac aat ggt ctt 241
235 Gly Asp Asp Gly Glu Asn Leu Leu Gln Ser Ala Ala Asn Asn Gly Leu
236 65 70 75 80
238 ggc gtc att gct ttc tca cca ctt gcg cag ggc ctg ctc acg gac aaa 289
239 Gly Val Ile Ala Phe Ser Pro Leu Ala Gln Gly Leu Leu Thr Asp Lys
240 85 90 95
242 tat ctc gat gga att cca gag ggt tcc cgc gcc agc cag ggt aag tcc 337

RAW SEQUENCE LISTING DATE: 08/12/2002
PATENT APPLICATION: US/09/105,117I TIME: 14:05:45

Input Set : A:\Sequencelisting_FZJ 9910 PCT_US.txt
Output Set: N:\CRF3\08122002\I105117I.raw

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243 Tyr Leu Asp Gly Ile Pro Glu Gly Ser Arg Ala Ser Gln Gly Lys Ser
244             100                 105                 110
246 ctg tct gag ggc atg ttg aac gtg aac aat att gat atg gtc cgc aag   385
247 Leu Ser Glu Gly Met Leu Asn Val Asn Asn Ile Asp Met Val Arg Lys
248         115                 120                 125
250 ctc aat gac atc gcc cag gaa cgc ggg cag tca ctt gcg cag atg gcg   433
251 Leu Asn Asp Ile Ala Gln Glu Arg Gly Gln Ser Leu Ala Gln Met Ala
252     130                 135                 140
254 ctt gca tgg gtg ctg cgc gag caa gga gag tac ggc gcg gat acc gtg   481
255 Leu Ala Trp Val Leu Arg Glu Gln Gly Glu Tyr Gly Ala Asp Thr Val
256 145                 150                 155                 160
258 acc agt gca ttg att ggt gct tcg tca gtt gag cag ctg gac aac agc   529
259 Thr Ser Ala Leu Ile Gly Ala Ser Ser Val Glu Gln Leu Asp Asn Ser
260                 165                 170                 175
262 ctt gat tca ctc aac aac ttg gag ttt tct gac gcc gag ttg gag gcg   577
263 Leu Asp Ser Leu Asn Asn Leu Glu Phe Ser Asp Ala Glu Leu Glu Ala
264             180                 185                 190
266 atc gat gag att tcc cac gac gcc ggc atc aac att tgg gcg aag gcc   625
267 Ile Asp Glu Ile Ser His Asp Ala Gly Ile Asn Ile Trp Ala Lys Ala
268         195                 200                 205
270 acc gat tcc aaa acc cgc gaa aac taa cccatcaaca tcagtttgat         672
271 Thr Asp Ser Lys Thr Arg Glu Asn
272     210                 215
274 ggccaatgcg gtcatcacaa ctgccacgac gacgttgatc cagcgccaca ccttggggct 732
276 ggacagcggg cgtgacaatg ctgctgcgcc gaaacccacc agcgggaacc agatcaggct 792
278 tgccgcgaac gcgccagcgg cgaaaatcca ccgtccggtg tcgccgtatt gcgcgccgac 852
280 gccgccgata aacacaaacg cgtccaaata cgcattcggg ttcaaccagg tcagcacgat 912
282 tgccatcaac atgggcttta cccaaacccg ctgcttatcg acgctcacct ccacccgcac 972
284 ccggttgcgc gtgtcagtgg ccaccgccga accgcccaaa ggcgtgtcat cgggcacggt 1032
286 tggttctgtt tcttcaatga tctgtggcgc ttccaccttg tttgtcatgg cgtctttcgc 1092
288 tgccatgacg gcaaaccata acaggtaagc gatgccaccc cagcgcataa tatcgagcac 1152
290 gatcggcgcg gcattggaca aaagatcaac gcccaaggtg ccggcgatga acaaaaagac 1212
292 gtcagaaatt aaacacacga gaagaaccgc aatgagtcct tcgcgcttaa ttccttgttt 1272
294 aatcaccagt acattctgcg gtccgatgga cagtaaaaga ctggccccca aaagcagacc 1332
296 tgtaatgaag atttccatga tcaccatcgt gacctatgga agtacttaag taaaatgatt 1392
298 ggttcttaac atggtttaat atagcttc atg aac ccc att caa ctg gac act    1444
299                               Met Asn Pro Ile Gln Leu Asp Thr
300                                   220                 225
302 ttg ctc tca atc att gat gaa ggc agc ttc gaa ggc gcc tcc tta gcc   1492
303 Leu Leu Ser Ile Ile Asp Glu Gly Ser Phe Glu Gly Ala Ser Leu Ala
304                 230                 235                 240
306 ctt tcc att tcc ccc tcg gcg gtg agt cag cgc gtt aaa gct ctc gag   1540
307 Leu Ser Ile Ser Pro Ser Ala Val Ser Gln Arg Val Lys Ala Leu Glu
308             245                 250                 255
310 cat cac gtg ggt cga gtg ttg gta tcg cgc acc caa ccg gcc aaa gca   1588
311 His His Val Gly Arg Val Leu Val Ser Arg Thr Gln Pro Ala Lys Ala
312         260                 265                 270
314 acc gaa gcg ggt gaa gtc ctt gtg caa gca gcg cgg aaa atg gtg ttg   1636
315 Thr Glu Ala Gly Glu Val Leu Val Gln Ala Ala Arg Lys Met Val Leu
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RAW SEQUENCE LISTING DATE: 08/12/2002
PATENT APPLICATION: US/09/105,117I TIME: 14:05:45

Input Set : A:\Sequencelisting_FZJ 9910 PCT_US.txt
Output Set: N:\CRF3\08122002\I105117I.raw

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316     275                 280                 285
318 ctg caa gca gaa act aaa gcg caa cta tct gga cgc ctt gct gaa atc   1684
319 Leu Gln Ala Glu Thr Lys Ala Gln Leu Ser Gly Arg Leu Ala Glu Ile
320 290                 295                 300                 305
322 ccg tta acc atc gcc atc aac gca gat tcg cta tcc aca tgg ttt cct   1732
323 Pro Leu Thr Ile Ala Ile Asn Ala Asp Ser Leu Ser Thr Trp Phe Pro
324                 310                 315                 320
326 ccc gtg ttc aac gag gta gct tct tgg ggt gga gca acg ctc acg ctg   1780
327 Pro Val Phe Asn Glu Val Ala Ser Trp Gly Gly Ala Thr Leu Thr Leu
328             325                 330                 335
330 cgc ttg gaa gat gaa gcg cac aca tta tcc ttg ctg cgg cgt gga gat   1828
331 Arg Leu Glu Asp Glu Ala His Thr Leu Ser Leu Leu Arg Arg Gly Asp
332         340                 345                 350
334 gtt tta gga gcg gta acc cgt gaa gct aat ccc gtg gcg gga tgt gaa   1876
335 Val Leu Gly Ala Val Thr Arg Glu Ala Asn Pro Val Ala Gly Cys Glu
336     355                 360                 365
338 gta gta gaa ctt gga acc atg cgc cac ttg gcc att gca acc ccc tca   1924
339 Val Val Glu Leu Gly Thr Met Arg His Leu Ala Ile Ala Thr Pro Ser
340 370                 375                 380                 385
342 ttg cgg gat gcc tac atg gtt gat ggg aaa cta gat tgg gct gcg atg   1972
343 Leu Arg Asp Ala Tyr Met Val Asp Gly Lys Leu Asp Trp Ala Ala Met
344                 390                 395                 400
346 ccc gtc tta cgc ttc ggt ccc aaa gat gtg ctt caa gac cgt gac ctg   2020
347 Pro Val Leu Arg Phe Gly Pro Lys Asp Val Leu Gln Asp Arg Asp Leu
348             405                 410                 415
350 gac ggg cgc gtc gat ggt cct gtg ggg cgc agg cgc gta tcc att gtc   2068
351 Asp Gly Arg Val Asp Gly Pro Val Gly Arg Arg Arg Val Ser Ile Val
352         420                 425                 430
354 ccg tcg gcg gaa ggt ttt ggt gag gca att cgc cga ggc ctt ggt tgg   2116
355 Pro Ser Ala Glu Gly Phe Gly Glu Ala Ile Arg Arg Gly Leu Gly Trp
356     435                 440                 445
358 gga ctt ctt ccc gaa acc caa gct gct ccc atg cta aaa gca gga gaa   2164
359 Gly Leu Leu Pro Glu Thr Gln Ala Ala Pro Met Leu Lys Ala Gly Glu
360 450                 455                 460                 465
362 gtg atc ctc ctc gat gag ata ccc att gac aca ccg atg tat tgg caa   2212
363 Val Ile Leu Leu Asp Glu Ile Pro Ile Asp Thr Pro Met Tyr Trp Gln
364                 470                 475                 480
366 cga tgg cgc ctg gaa tct aga tct cta gct aga ctc aca gac gcc gtc   2260
367 Arg Trp Arg Leu Glu Ser Arg Ser Leu Ala Arg Leu Thr Asp Ala Val
368             485                 490                 495
370 gtt gat gca gca atc gag gga ttg cgg cct tag ttacttctga aaaggttcag 2313
371 Val Asp Ala Ala Ile Glu Gly Leu Arg Pro
372         500                 505
374 ggtttttcac ttcttcgccc gcaggaattg ggccaggcag agtaacacct tcagcaaatg 2373
376 g                                                               2374
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<210> 5 → last sequence in submitted file
<211> 290
<212> PRT (LysG) either delete this or move it to <220>-<223> section
<213> Corynebacterium glutamicum

<400> 5

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Met Asn Pro Ile Gln Leu Asp Thr Leu Leu Ser Ile Ile Asp Glu Gly
 1               5                  10                  15

Ser Phe Glu Gly Ala Ser Leu Ala Leu Ser Ile Ser Pro Ser Ala Val
            20                  25                  30

Ser Gln Arg Val Lys Ala Leu Glu His His Val Gly Arg Val Leu Val
        35                  40                  45

Ser Arg Thr Gln Pro Ala Lys Ala Thr Glu Ala Gly Glu Val Leu Val
    50                  55                  60

Gln Ala Ala Arg Lys Met Val Leu Leu Gln Ala Glu Thr Lys Ala Gln
65                  70                  75                  80

Leu Ser Gly Arg Leu Ala Glu Ile Pro Leu Thr Ile Ala Ile Asn Ala
                85                  90                  95

Asp Ser Leu Ser Thr Trp Phe Pro Pro Val Phe Asn Glu Val Ala Ser
            100                 105                 110

Trp Gly Gly Ala Thr Leu Thr Leu Arg Leu Glu Asp Glu Ala His Thr
        115                 120                 125

Leu Ser Leu Leu Arg Arg Gly Asp Val Leu Gly Ala Val Thr Arg Glu
    130                 135                 140

Ala Asn Pro Val Ala Gly Cys Glu Val Val Glu Leu Gly Thr Met Arg
145                 150                 155                 160

His Leu Ala Ile Ala Thr Pro Ser Leu Arg Asp Ala Tyr Met Val Asp
                165                 170                 175

Gly Lys Leu Asp Trp Ala Ala Met Pro Val Leu Arg Phe Gly Pro Lys
            180                 185                 190

Asp Val Leu Gln Asp Arg Asp Leu Asp Gly Arg Val Asp Gly Pro Val
        195                 200                 205

Gly Arg Arg Arg Val Ser Ile Val Pro Ser Ala Glu Gly Phe Gly Glu
    210                 215                 220

Ala Ile Arg Arg Gly Leu Gly Trp Gly Leu Leu Pro Glu Thr Gln Ala
225                 230                 235                 240

Ala Pro Met Leu Lys Ala Gly Glu Val Ile Leu Leu Asp Glu Ile Pro
                245                 250                 255

Ile Asp Thr Pro Met Tyr Trp Gln Arg Trp Arg Leu Glu Ser Arg Ser
            260                 265                 270
```

Do not show any extraneous responses to <212>. The only correct responses are: DNA, RNA, or PRT (see 1.823 of Sequence Rules)

Please edit all similar sequences

see next page for more error

Leu Ala Arg Leu Thr Asp Ala Val Val Asp Ala Ala Ile Glu Gly Leu
275 280 285

Arg Pro
290

FZJ 9910 PCT/US 6/8

FZJ 9910 PCT/US 8/8

delete

09/105,119I

6

<210> 3
<211> 2374
<212> DNA (complement to <210> 1)
<213> Corynebacterium glutamicum
<220>
<221>unsure
<222>CDS (2)..(652)
<223>orf3
<220>
<221>gene
<222>CDS (1421)..(2293)
<223>LysG

<400> 3

either delete this or show it in <220>-<223> section

Otherwise, the sequence is considered errored

VERIFICATION SUMMARY DATE: 08/12/2002
PATENT APPLICATION: **US/09/105,117I** TIME: 14:05:46

Input Set : **A:\Sequencelisting_FZJ 9910 PCT_US.txt**
Output Set: **N:\CRF3\08122002\I105117I.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:206 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:206 M:283 W: Missing Blank Line separator, <210> field identifier
L:208 M:283 W: Missing Blank Line separator, <220> field identifier
L:212 M:283 W: Missing Blank Line separator, <220> field identifier
L:217 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:217 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:3
L:13 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (2) Counted (5)